

ABSTRACT OF THE DISCLOSURE

A process for detecting initiation (BB) of an active packet or burst in a digital received signal $r(v)$ during use of a digital reference signal $p(v)$ includes: (a) executing a correlation (S102, S103) by forming a cost function $L(v_o)$ with a correlation function within a correlation function interval dependent upon a time delay of received signal $r(v)$ relative to the bit offset or the chip offset v_o characterized by reference signal $p(v)$, whereby the addends of the correlation function were multiplied with a frequency offset correction factor, namely $e^{j2\pi\Delta\tilde{f}v}$, which factor was characterized with a frequency offset Δf of received signal $r(v)$ relative to the reference signal $p(v)$; and (b) seeking a maximum $Max(L)$ of cost function $L(v_o)$ dependent upon the bit offset or the chip offset v_o and upon the frequency offset $\Delta\tilde{f}$ whereby maximum $Max(L)$, following a discrete Fourier Transform (FFT) is sought in the frequency space.